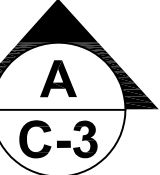
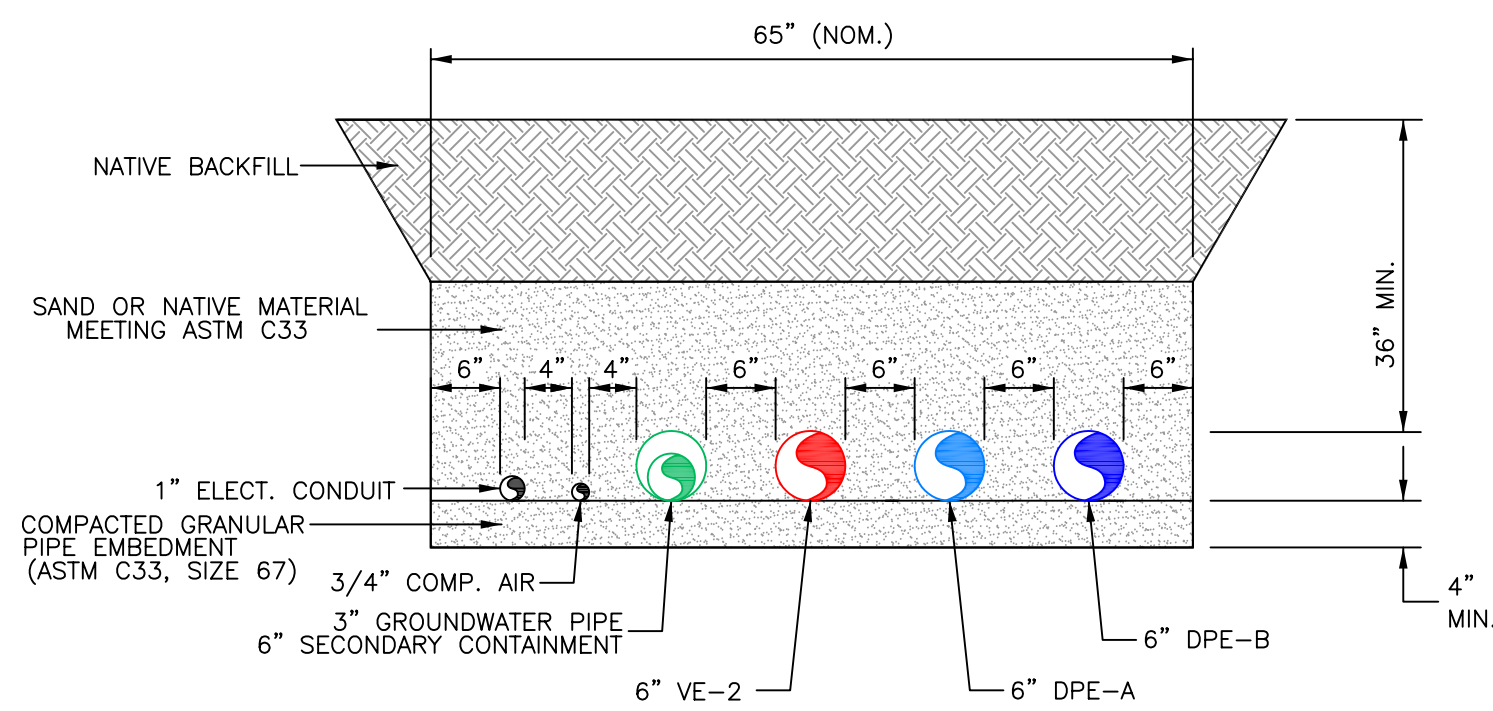


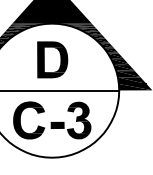
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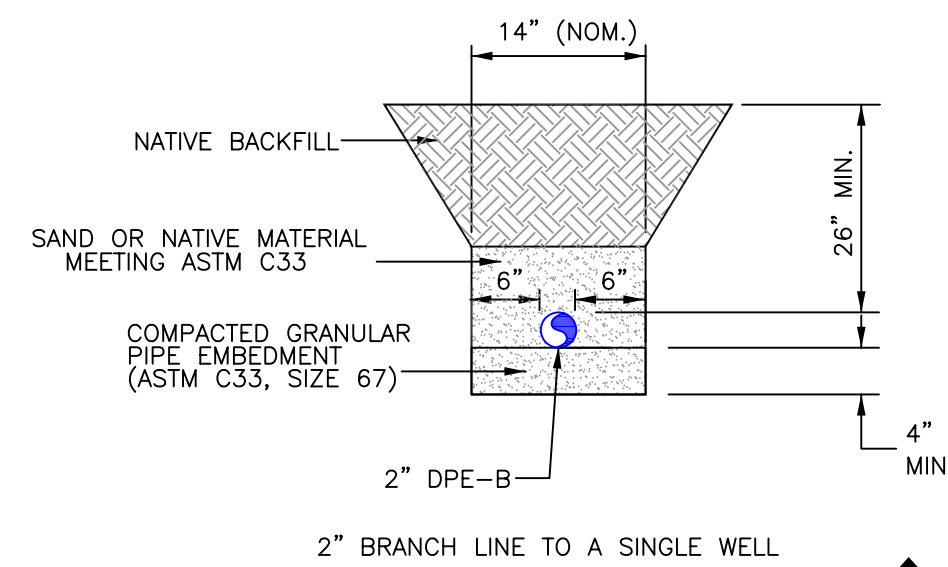
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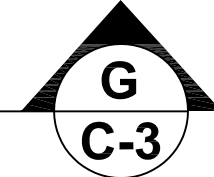
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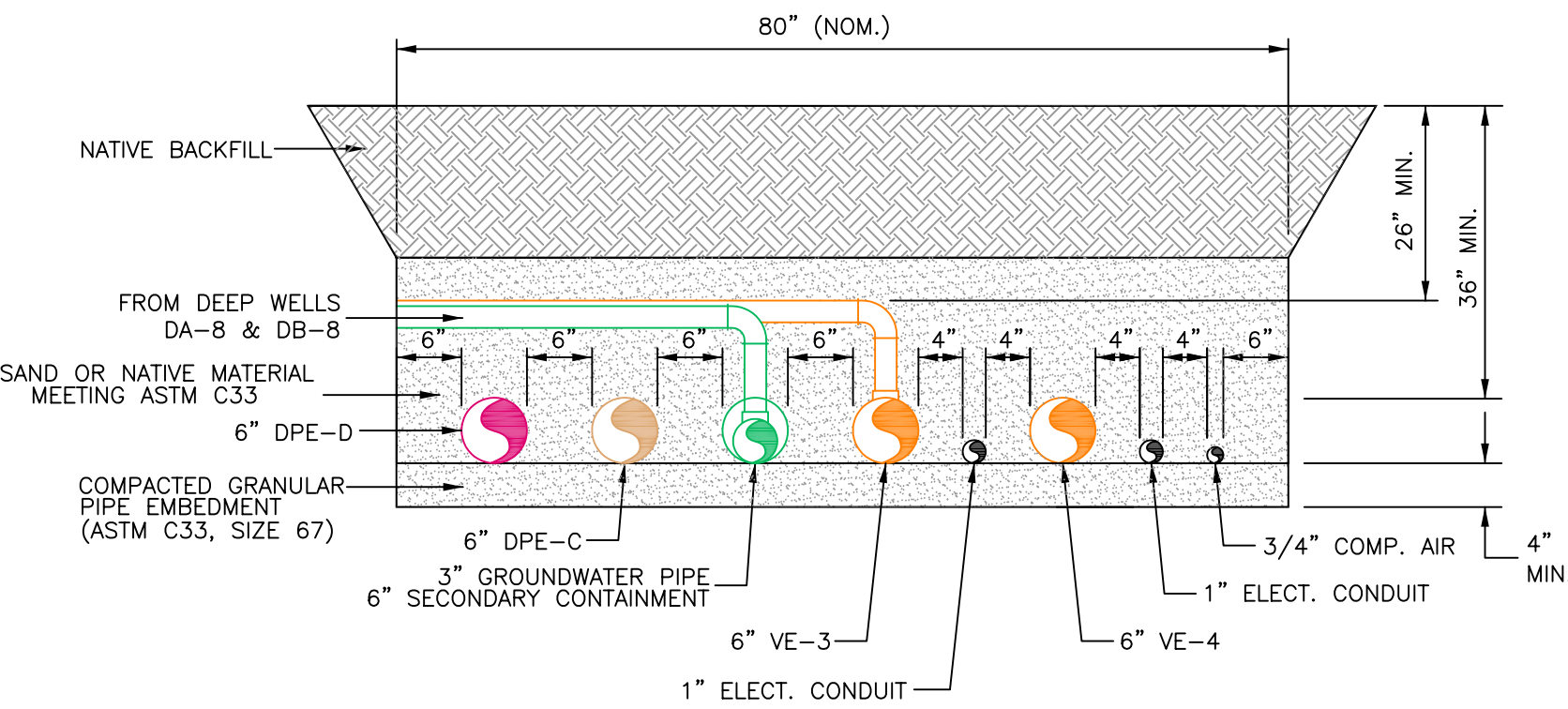
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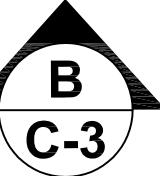
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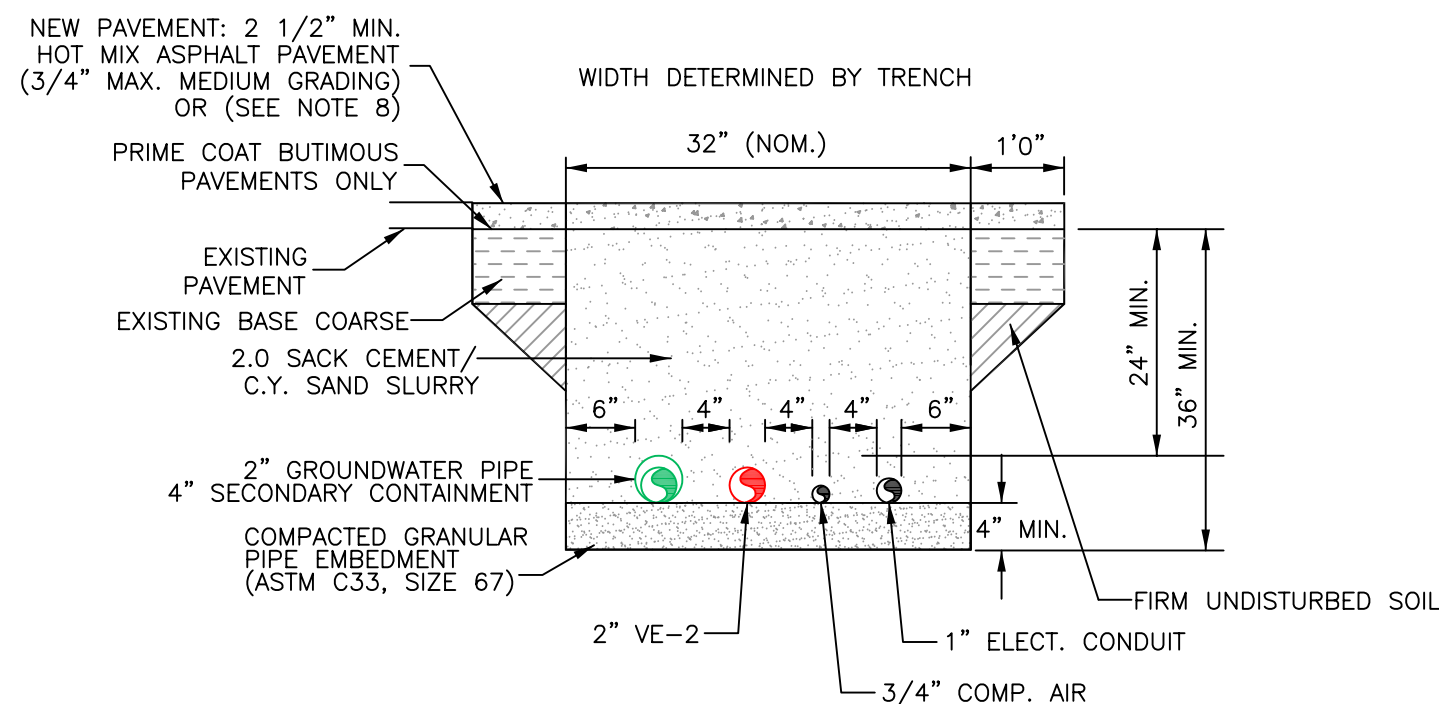
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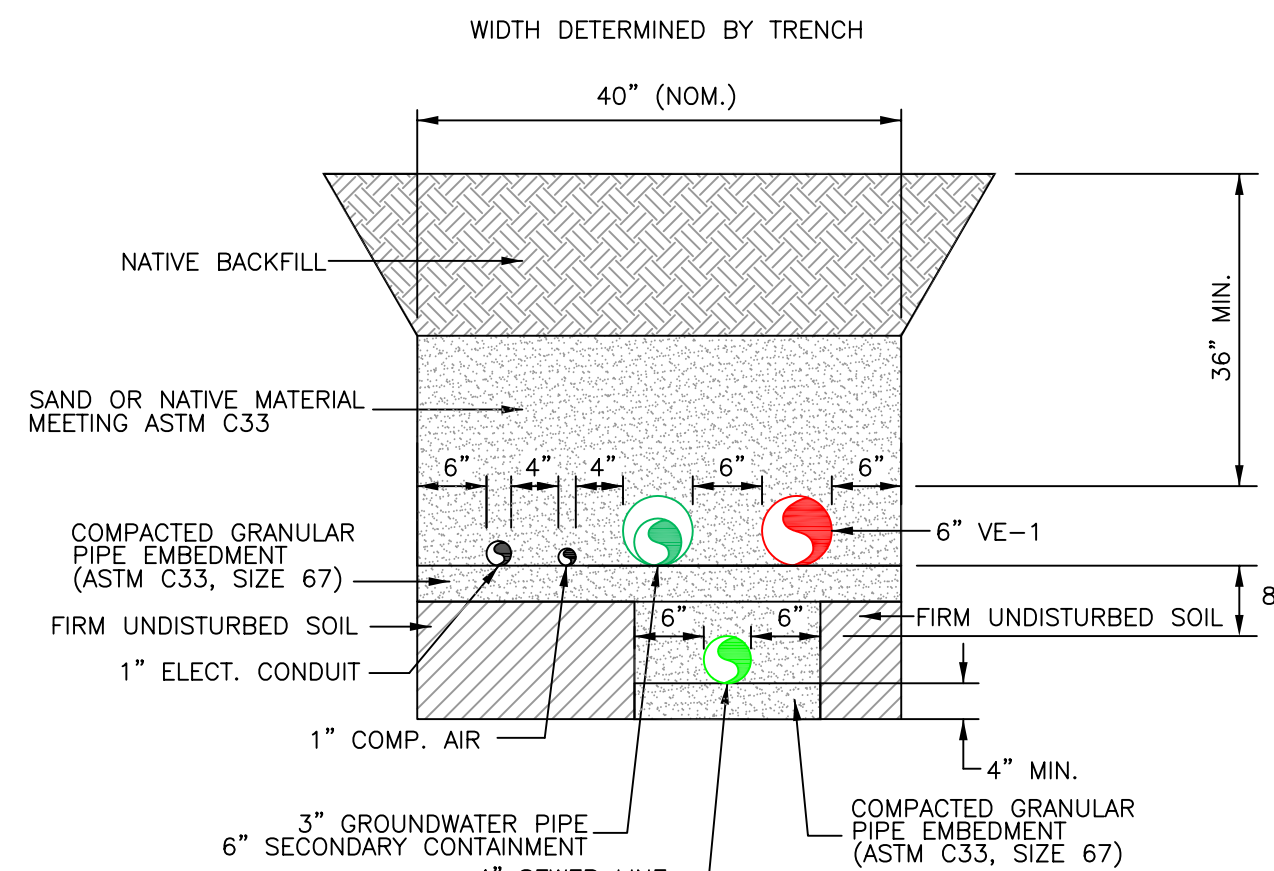
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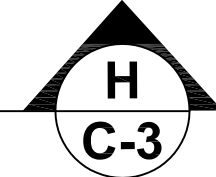
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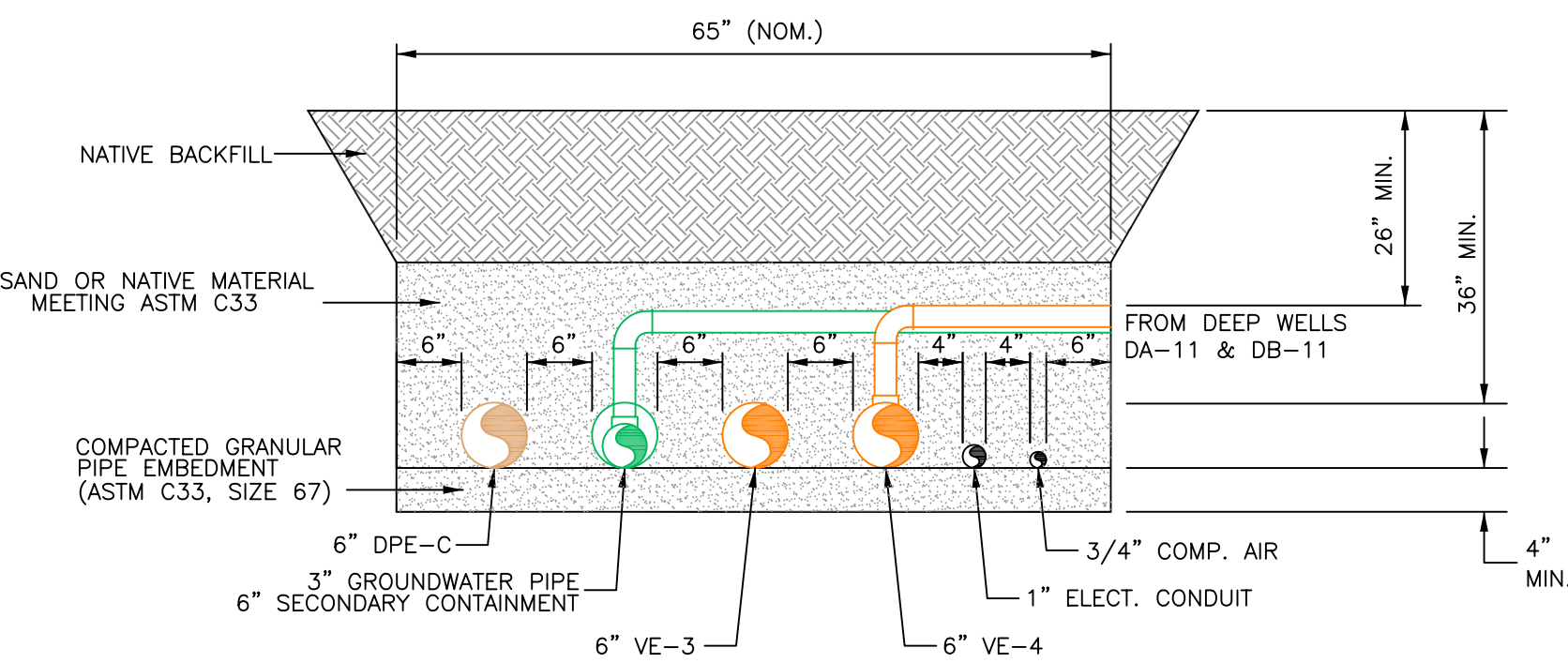
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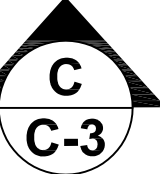
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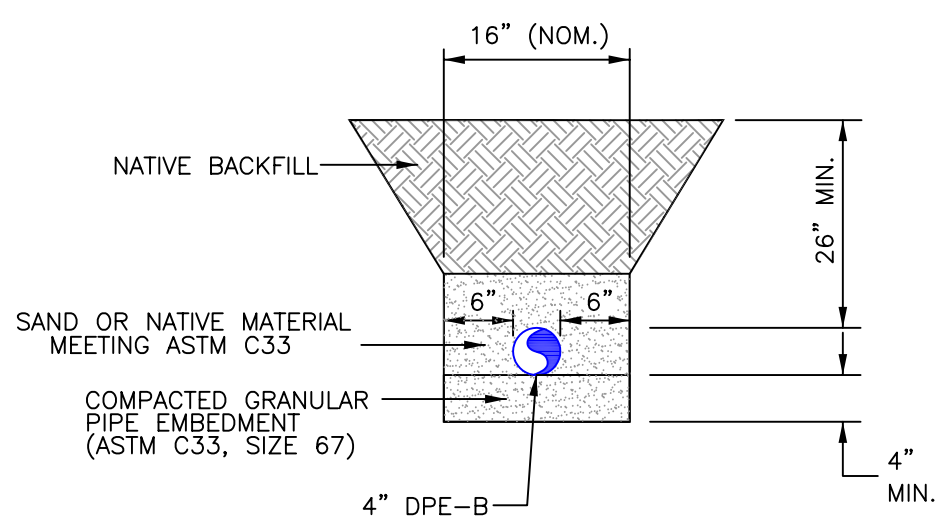
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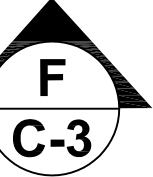
TRENCH CROSS SECTION



NOT TO SCALE



TRENCH CROSS SECTION



NOT TO SCALE

LEGEND:

- DUAL PHASE EXTRACTION (DPE) HEADER A
- DUAL PHASE EXTRACTION (DPE) HEADER B
- DUAL PHASE EXTRACTION (DPE) HEADER C
- DUAL PHASE EXTRACTION (DPE) HEADER D
- VAPOR EXTRACTION HEADER (VE-1 TO VE-2)
- VAPOR EXTRACTION HEADER (VE-3 TO VE-4)
- GROUNDWATER CONVEYANCE PIPE WITH SECONDARY CONTAINMENT
- SEWER LINE
- COMPRESSED AIR OR ELECTRICAL CONDUIT

NOTES:

- THE INTENT OF DRAWING C-4 IS TO INFORM THE CONSTRUCTION CONTRACTOR TO SOME OF THE TRENCH SECTION CONFIGURATIONS, THE INTENT FOR MINIMUM DEPTH AND BACKFILL/CONSTRUCTION REQUIREMENTS. THE SECTIONS SHOWN CAN BE USED AS MODELS TO ADDRESS ADDITIONAL TRENCH SECTION CONFIGURATIONS. ANY ADDITIONAL TRENCH SECTION CONFIGURATIONS ARE CONSIDERED DESIGN/BUILD ITEMS TO BE PERFORMED BY THE CONSTRUCTION CONTRACTOR.
- EXCAVATION, BACKFILL AND STOCKPILING TO BE PERFORMED IN ACCORDANCE WITH SECTION 02225-TRENCHING, SECTION 02211-EARTHWORK AND SECTION 02205-SOIL MATERIALS.
- THE DEPTH OF PIPE BENEATH ALL PROPOSED PARK SURFACES SHALL BE GREATER THAN 2' BGS TO ACCOMMODATE THE PARK ELECTRICAL CONDUIT (2' BGS) AND PARK IRRIGATION LINES (1.5' BGS), EXCEPT WHERE CONNECTIONS ARE MADE TO WELL VAULTS.
- THE TRENCH CROSS SECTIONS GENERALLY PORTRAY THE MINIMUM DEPTH REQUIREMENTS. ADDITIONAL TRENCH DEPTH ALLOWANCE SHALL BE PROVIDED TO ACCOMMODATE THE SLOPES SPECIFIED IN DRAWING C-5.
- REFER TO SPECIFICATION SECTION 15400-PROCESS PLUMBING FOR PIPE MATERIALS, LENGTHS AND DIAMETERS.
- REFER TO SPECIFICATION SECTION 02225-TRENCHING FOR BACKFILL COMPACTION REQUIREMENTS. GENERALLY, GRANULAR PIPE EMBEDMENT AND BACKFILL SHALL BE COMPACTED TO 90% BENEATH PARK SURFACES AND 95% BENEATH ROADS AND FOUNDATIONS.
- TRAFFIC CONTROL AND SAFETY MEASURES SHALL BE ESTABLISHED BEFORE COMMENCEMENT OF ANY EXCAVATION. OPEN TRENCH AND EXCAVATION AREAS SHALL BE SECURED WITH BARRICADES, FLAGGING TAPE AND OTHER USUAL TRAFFIC CONTROL AND SAFETY EQUIPMENT. TRAFFIC-RATED STEEL COVER PLATES SHALL BE PLACED OVER ROAD EXCAVATIONS SO THAT NO TRENCHES REMAIN OPEN DURING OFF-WORK HOURS. ADDITIONAL SAFETY PROCEDURES FOR EXCAVATIONS SHALL BE FOLLOWED AS DESCRIBED IN SECTION 01351-SAFETY, HEALTH AND EMERGENCY RESPONSE AND THE SITE SAFETY AND HEALTH PLAN.
- NEW PAVEMENT AND BASE IS OF THE SAME TYPE AND THICKNESS AS THAT WHICH WAS REMOVED, BUT IN NO CASE IS IT LESS THAN INDICATED.
- ALL PIPE SHALL BE COVERED WITH A MINIMUM OF 6 INCHES OF SAND OR PIPE EMBEDMENT, BEFORE BACKFILLING WITH NATIVE MATERIAL.

TRENCH DETAILS

PEMACO SUPERFUND SITE
5050 EAST SLAUSON AVENUE
MAYWOOD, CALIFORNIA

PREPARED FOR: U.S. Environmental Protection Agency Region IX San Francisco, California		PREPARED BY: TNT & Associates, Inc. & A Engineering and Science	
SCALE: AS SHOWN	APPROVED FINAL	DATE: 03/08/07	REV C-4 9
DESIGNED: JW & GN		DRAWING	
DRAWN: DC			
CHECKED: JW			

AS-BUILT